

e through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

#### TRANSMITTAL LETTER TO THE UNITED STATES ATTTORNEY'S DOCKET NUMBER GRA26 002 DESIGNATED/ELECTED OFFICE (DO/EO/US) U.S. APPLICATION NO. (If known, see 37 CFR 1.5) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 10/531,042 PRIORITY DATE CLAIMED INTERNATIONAL FILING DATE 16 OCTOBER 2003

INTERNATIONAL APPLICATION NO. PCT/US2003/032583 TITLE OF INVENTION TLE OF INVENTION
RELESS COMMUNICATION NETWORK MEASUREMENT DATA COLLECTION USING INFRASTRUCTURE OVERLAY-BASED HANDSET LOCATION SYSTEMS APPLICANT(S) FOR DO/EO/US Joseph P. KENNEDY, Jr.; Thomas B. GRAVELY; Andrew BECK and John P. CARLSON Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. l An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: 11. L An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. 🔽 An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. 🔽 Other items or information: Copy of Notification of Missing Requirements

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 2



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	21. 🗌 Bas	ic nati	onal fee			\$	300	\$	
	If International p PCT Article 3	relimii 3(1)-(4	4)		red by USPTO and all		100	\$	
	Search fee (37 C International Sea	nal Se arch R	445(a)(2)) ha earching Auth eport prepare	horityed and provided to	e international applica	\$ \$	100 400	\$	
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	☐ sequence li	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
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	Surcharge of \$13 claimed priority of	30.00 for furnishing the oath or declaration later than 30 months from the earliest date (37 CFR 1.492(e)).						\$	
	CLAIMS		NUMB	ER FILED	NUMBER EXTRA	A RA	TE	\$	
	Total claims		40	- 20 =	0	x \$	50	\$	
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	MULTIPLE DEP	ENDE	NT CLAIM(S	) (if applicable)		+ \$3	60	\$	
						ABOVE CALCULA	TIONS =	\$	
	Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.								
		SUBTOTAL					TOTAL =	\$	
		Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).							
		TOTAL NATIONAL FEE:						\$	
		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +						\$ 40.00	
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	DUANE MO	RRI	SLLP			SIG	NATURE		
	1667 K Stre						C. Com	tois	
	Washington					NA.			
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Appropriate for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE Express Mail mailing number: Date of deposit: 19 October 2005 File reference no.: GRA26 008 International application no. (if known): PCT/US2003/032583 NETWORK OVERLAY GEO-LOCATION SYSTEM WITH SMART ANTENNAS AND METHOD OF OPERATION Title of the invention: Earliest priority date claimed (Day/Month/Year): 16 October 2002 This is a new International Application SCREENING DISCLOSURE INFORMATION: In order to assist in screening the accompanying international application for purpose s of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (check as many boxes as apply): The invention disclosed was not made in the United States of America. There is no prior U.S. application relating to this invention. The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on the Request (form PCT/RO/101) and this listing does not constitute a claim for priority.) application no. filed on application no. filed on The present international application contains additional subject matter not found in the prior U.S. application(s) identified above. The additional subject matter is found on pages and DOES NOT ALTER MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 C.F.R. 5.15. Itemized list of contents Sheets of Request form: Check no.: Sheets of description (excluding sequence listing): Return receipt postcard: Sheets of claims: Power of attorney: Certified copy of priority Sheets of abstract: document (specify): Sheets of drawings: Other (specify): Transmittal Letter to US DO/EO, including executed Sheets of sequence listing: Combined Declaration and Power of Attorney; Sequence listing diskette/CD: Copy of Notice to File Missing Requriements; Form PTO-1595, including executed Assignment Tables related to sequence listing CD: The person Applicant signing this Mark C. Comtois form is: Attorney/Agent (Reg. No.) Name of person signing 46,285

This collection of information is required by 37 CFR 1.10 and 1.412. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Common Representative



## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alazandria, Virginia 22313-1450 www.uspto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO.

10/531,042

Joseph P Kennedy JR.

**GRA26 002** 

PCT/US03/32583

INTERNATIONAL APPLICATION NO.

I.A. FILING DATE

PRIORITY DATE

10/16/2003

10/16/2002

**CONFIRMATION NO. 4673 371 FORMALITIES LETTER** 

\*OC000000017051066\*

Mark C Comtois **DUANE MORRIS** Suite 700 1667 K Street NW Washington, DC 20006

Date Mailed: 09/20/2005

# NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 04/12/2005
- Copy of the International Search Report filed on 04/12/2005
- Copy of IPE Report filed on 06/27/2005
- U.S. Basic National Fees filed on 04/12/2005
- Priority Documents filed on 04/12/2005

RECEIVED DUANE MORRIS, LLP

SEP 23 2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items MUST be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION.

## WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice **MUST** be returned with the response.

### SHAKEEL AHMED

Telephone: (703) 308-9140 EXT 208

### PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.	ATTY. DOCKET NO	
10/531,042	PCT/US03/32583	GRA26 002	

FORM PCT/DO/EO/905 (371 Formalities Notice)